UST Compliance Assistance Checklist

PART I. OWNER/OPERATOR INFORMATION

1. Facility Name: Trailside Conv.
2. Owner:
3. Operator:
5. Contact Person: Dee Ann Kacon
6. UST Site Phone #: 320-676-3746

6. Date of Visit: 5.26.15 7. Marketer: X Non-Marketer:
8. Site Arrival/Departure (Time): 10:00 / 11:20
9. Facility Address: 750 South Hwy. 47
Isle MN. 56342
10: Team Members: Andrew Boyd/John LeBlanc

PART II. UST SITE INFORMATION

	1	2	3	4	5	6	7
1. Tank #:	1	2	3	4	5	6	7
2. Tank Type:	STIP3	STIP3	STIP3	STIP3	STIP3	STIP3	
3. Piping Type:	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	
4. Size of Tank:	PRES. 10K	PRES. 4K	PRES. 4K	PRES. 2K	SUC. 1K	SUC. 1K	
5. Tank Contents:	UL 87	DIESEL	UL PRIM.	UL MID.	OFF RD.	KERO.	
6. Install Date:	4/1/1992	4/1/1992	4/1/1992	4/1/1992	4/1/1992	4/1/1992	
7. TTT Date:							
8. LTT Date:							
9: LD (Tank):							
10: LD (Pipe):							
11. Closure Date:							
	Perm__Temp__	Perm__Temp__	Perm__Temp__	Perm__Temp__	Perm__Temp__	Perm__Temp__	Perm__Temp__
12. Spill:	Yes x No__	Yes xNo__	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes__ No__
13. Overfill:	Yes x No__	Yes xNo__	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes__ No__
Type:	FLAPPER	FLAPPER	FLAPPER	FLAPPER	FLAPPER	FLAPPER	
14. CP (Tank):	Yes x No__	Yes xNo__	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes__ No__
Date:	10/20/14	10/20/14	10/20/14	10/20/14	10/20/14	10/20/14	
Type:	ANODE	ANODE	ANODE	ANODE	ANODE	ANODE	
15. CP (Piping):	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__
Date:	10/20/14	10/20/14	10/20/14	10/20/14	10/20/14	10/20/14	
Type:	ANODE	ANODE	ANODE	ANODE	ANODE	ANODE	

16. CP Monitoring: [For all cathodic protection systems (Galvanic Anodes and Impressed Current Systems)]

	1	2	3	4	5	6	7
6 Mo./3 Yrs:	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes__ No__
Six Months:	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__
Records:	Yes x No__	Yes x No x	Yes x No__	Yes x No__	Yes x No__	Yes x No__	Yes__ No__

Note: Monitoring conducted within six month of installation and three years after initial monitoring. [280.31(b)(1)]
Note: Monitoring conducted within six month of any repairs to UST system. [280.33(e)]
Note: Records on file of last two monitoring results. [280.31(d)(2)]

17. CP Monitoring: [For Impressed Current Systems Only]

	1	2	3	4	5	6	7
60 Day Insp.:	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__
Records:	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__	Yes__ No__

Note: System is inspected ever 60 days, involvers reading and recording systems voltage and amperage. [280.31(c)]
Note: Records on file of last three voltage and amperage readings. [280.33(d)(1)]

(5/29/2015)

UST Compliance Assistance Checklist

PART III. RECOMMENDATION(S) & NARRATIVE COMMENTS

1. Facility to provide info. on compliance: Yes ___ No ___

Notes: _____

2. Follow-up visit recommended Yes ___ No X

Notes: _____

3. Financial Responsibility (FR): Yes X No ___ Expiration Date: _____

4. Inspector's Remarks: _____

LDFT- 10/20/14 PASS

5. Additional Remarks/Comments: _____

DATE	1 2 3 4 5 6	
4/17/14	P P P P P P	
5/13/14	P P P P P P	
6/17/14	P P P P P I	* TANK #6 INCONCLUSIVE WAS DUE TO FUALTY METER.IT WAS REPLACED
7/31/14	P P P P P P	AND WORKING PROPERLY.
8/14/14	P P P P P P	
9/25/14	P P P P P P	
10/22/14	P P P P P P	
12/01/14	P P P P P P	
1/19/15	P P P P P P	
2/17/15	P P P P P P	
3/30/15	P P P P P P	
4/17/15	P P P P P P	
5/13/15	P P P P P P	

_____ _____

Inspector Signature Date

5 106084

Minnesota Petroleum Service

682 - 39th Ave North East
Columbia Heights, MN 55421
Phone (763)-780-5191 Fax (763)-780-5472
www.mnpetro.com

Mechanical / Electronic Leak Detection Certification

Location:

Trailside
750 Hwy 47
Isle MN 56342

Ph. Fx.

Work Order #: 22676

Testing Date: 10/20/14

Sump #	1	2	3	4
Product	Gas 87	Diesel	Gas 91	Gas 89
Leak Detection Type	FE Petro	Red Jacket	Red Jacket	Red Jacket
Model #	MLD	FX1DV	XLD	XLD
Opening Time	6	3	3	4
Operating Pressure	28	34	30	30
Check Valve Pressure	22	14	22	16
Meter Pressure	10	12	12	12
3.0 GPH Leak Detected	Pass	Pass	Pass	Pass

Notes

SIR Site.

Technician Bob Nygard

Technician Signature: Robert J Nygard Date: 10/20/2014

Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

UST Cathodic Protection System Evaluation Galvanic (Sacrificial Anode) Type

Underground Storage Tanks (UST) Program

Doc Type: Compliance Certification

Instructions: Within 30 days, send completed form to Joann Henry, Minnesota Pollution Control Agency (MCPA) at the address above, fax to 651-297-2343, or e-mail joann.henry@state.mn.us.

- **All reports must be submitted regardless of results (pass, fail, or inconclusive)**
- **Incomplete, unsigned, or illegible forms will not be accepted and will be returned.**

1. UST facility

MPCA Site ID #: 8301

Name: Trail Side
Address: 750 Highway 47 South
City: Isle Zip code: 56342
County: Mille Lacs Phone: 320-676-3746
Contact name (if different than above): Deanne

2. UST owner/operator

Name:
Address:
City: State:
Zip code: Phone:
Contact phone:

3. Cathodic Protection (CP) tester information and qualifications

Tester name (print): Bob Nygard Company name: Minnesota Petroleum
Address: 682-39th Ave. NE City: Columbia Heights
State: MN Zip code: 55421 Phone: 763-780-5191 E-mail: bnygard@mnpetro.com
National Association of Corrosion Engineers (NACE) international certification #:
Steel Tank Institute (STI) certification #: CP-131012

4. Reason survey was conducted (check only one)

☒ Routine - 3 years ☐ Routine - within 6 months of install ☐ 30-day re-survey after fail ☐ Re-survey within 6 months of repair/modification

Date next CP survey must be conducted by (mm/dd/yyyy): 10/20/2017 (Required within 6 months of install or repair, and every 3 years thereafter.)

5. CP tester's evaluation (check only one)

☒ **Pass** All protected structures at this facility pass the CP survey and the continuity survey indicates all protected structures are isolated. It is judged that adequate CP has been provided to the UST system (Complete sections 7 and 8).

☐ **Fail** One or more protected structures at this facility fail the CP survey, and it is judged that adequate CP has not been provided to the UST system. (Complete sections 7 and 8).

☐ **Inconclusive** The remote and the local do not both indicate the same test result on all protected structures (both pass or both fail),or the continuity survey indicates continuous or inconclusive results when compared to non-protected structures, the survey must be evaluated by a corrosion expert (Corrosion Expert to complete section 6).

CP Tester Signature: Robert J Nygard Date CP survey performed (mm/dd/yyyy): 10/20/2014

6. Corrosion expert's evaluation (if applicable)

The attached survey must be conducted and/or evaluated by a corrosion expert when: a) conducting repairs to metallic structures which are non-factory coated with dielectric material; b) adding supplemental anodes to the tanks and/or piping without following accepted industry standards; c) the local and remote structure-to-soil potential did not result in the same outcome (both pass or both fail); d) the continuity survey indicates one or more of the protected structures are not isolated; e) when required by MPCA (Corrosion Expert to complete sections 7 and 8).

☐ **Pass** All protected structures at this facility have been judged that the adequate CP is provided to the UST system.

☐ **Fail** One or more protected structures at this facility fail the CP survey and it is judged that adequate CP has not been provided to the UST system.

Corrosion expert's name (print): Phone:
Company name:
NACE Int./PE certification: NACE Int./PE certification #:
CP Expert Signature: Date (mm/dd/yyyy):

7. Criteria applicable to evaluation (check all that apply)

☒ **-850 On** Structure-to-soil potential more negative than -850 millivolts (mV) with the protective current applied.

☐ **-850 Off** Structure-to-soil potential more negative than -850 mV with the protective current momentarily interrupted. ("Instant Off")

☐ **100 mV** Structure tested exhibits at least 100 mV of cathodic polarization. ("Instant Off" readings minus native/depol readings)

Facility name: Trail Side Date of test (mm/dd/yyyy): 10/20/2014

(Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)

8. Action required as a result of this evaluation (check only one)

☒ **None** CP is adequate. No further action is necessary at this time. Test again by no later than (see Section 4).

☐ **Retest** CP may not be adequate. Retest within 30 days to determine if passing results can be achieved. (Retests may occur only if all protected structures are isolated from non-protected structures)

☐ **Repair & Retest** CP is not adequate. Repair/modification is necessary within the next 60 days, or permanently close the tank system.

9. CP system repairs and/or modification information

Date of "failing" test: _____ *(mm/dd/yyyy)* Date of repair: _____ *(mm/dd/yyyy)* Repair company: _____

Name of lead repair technician: _____ Phone # _____

Certification of repair technician (check all that apply): ☐ Steel Tank Institute ☐ NACE ☐ MPCA certified supervisor

Note: submit failing test results with this report if not already submitted.

Description of Repairs (check all that apply)

☐ 1. Supplemental anodes for a sti-P_3® tank.	*Repairs /modifications for 1 & 2 must be designed by a "corrosion expert" or installed per industry standards. Attach corrosion experts design, or documentation industry standard was followed. (Section 6 must be signed if designed by a corrosion expert.)*
☐ 2. Supplemental anodes for metallic pipe which is factory coated with dielectirc material (fusion bonded epoxy or equivilent).	
☐ 3. Supplemental anodes for a non-sti-P_3® tank. (e.g., bare steel).	*Repairs/modifications for 3 & 4 and must be designed and evaluated by a corrosion expert only. Attach a corrosion experts design. (Section 6 must be signed.)*
☐ 4. Supplimental anodes for metalic pipe which is non-factory coated with dielectirc material (e.g., galvanized, copper, bare steel, etc.).	

☐ 5. Isolation of Galvanically protected tanks/piping. (explain in "remarks/other" below).

☐ 6. Isolation of non-protected metal pipe segments (e.g., flex connectors) at STP or dispenser sumps (explain in "remarks/other" below).

Remarks/Other: _____

10. Galvanic (sacrificial anode) structure to soil potential and continuity survey

Half Cell Placement (testing) on frozen soil, concrete, asphalt, or other paving materials is not acceptable.

Structure to Soil Potentials:

- The half cell must be placed in a minimum of **three locations per tank, and three locations per piping run.** At least one of the reference cell locations must be in the soil directly over the tested structure (local); and at least one must be placed in soil approximately 25 to100 feet away from the structure (remote). The third location is at the discretion of the tester (either local or remote).
- When testing flex connectors only, **two tests points are required for each flex connector**, one local and one remote.
- Both the local and the remote voltage must meet one of the three criteria listed in section 7 in order for the structure to pass. Inconclusive must be indicated when both the local and the remote structure-to-soil potentials do not result in the same outcome (both pass or both fail).
- If the "-850 mV Off" or the "100 mV Polarization" criteria is used for galvanic systems, record structure-to-soil potential readings on the MPCA Impressed Current data sheet or similar form.

Continuity Testing: (Point-to-Point and/or Fixed Cell-Moving Ground)

- Point-to-Point: When conducting this method, the leads of the volt meter are required to contact the two structures being examined to demonstrate isolation or continuity. A half cell is not used for this test method.
- Fixed Cell-Moving Ground: When conducting this method, the half cell must be placed in the soil at a remote location approximately 25 to100 feet away and left undisturbed. The other lead of the meter is moved to structures being evaluated.
- To interpret continuity data for either method compare the difference in voltage of the structures evaluated and use the following guidelines: 1 mV or less = continuous, 1-10 mV= inconclusive, greater than 10 mV = isolated.
- For galvanic systems, the structure that is to be protected must be isolated from all other non-protected metallic structure in order to "pass" the continuity survey.
- If other approved continuity testing methods are used, alter this form or submit the data on a separate sheet.

Facility name: Trail Side Date of test (mm/dd/yyyy): 10/20/2014

(Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)

Describe soil type and location(s) of remote reference cell placement(s) (e.g., Black Dirt, 30 feet NW of Tank #1 spill bucket):

Remote location #1: Black Dirt, 30 feet NW of Tank #4 Fill pipe

Remote location #2:

Describe soil type(s) of local reference cell placements: Sandy

	Structure to soil potentials (mV)			Continuity testing (mV)			
	Half cell site map code	Half cell placement description	"ON" Voltage	Structure tested	Point-to-point voltage	Fixed cell remote voltage	Isolated/ Continuous/ Inconclusive
Structure: (Example) Tank 1	*(Ex)1*	*Local, soil at ATG manway*	*-1011 mV*	*(Ex) ATG Conduit*	*475 mV*		*isolated*
	(Ex)2	*Local, Soil at STP manway*	*-995 mV*	*(Ex) STP conduit*		*-528 mV*	*isolated*
	(Ex)R-1	*Remote #1*	*-1042 mV*	*(Ex) Vent*	*421 mV*		*isolated*
	Structure contact point(s): *(Ex)Tank Bottom*			*(Ex) Fill Riser*	*375 mV*	*-522 mV*	*isolated*
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: Tank #1 Gas 87	1	Local - Soil Over Tank	-950mv	Conduit At STP	716mv		iso
	2	Local - Soil Over Tank	-1049mv				
	3	Remote 1	-1201mv				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: Tank #2 Diesel	4	Local - Soil Over Tank	-1360mv	Conduit At STP	724mv		iso
	5	Local - Soil Over Tank	-1282mv				
	6	Remote 1	-1283mv				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: Tank #3 Gas 91	7	Local - Soil Over Tank	-1029mv	Conduit At STP	463mv		iso
	8	Local - Soil Over Tank	-993mv				
	9	Remote 1	-950mv				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: Tank #4 Gas 89	10	Local - Soil Over Tank	-1011mv	Conduit At STP	536mv		iso
	11	Local - Soil Over Tank	-1090mv				
	12	Remote 1	-1086mv				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: Tank #5 Kero	16	Local - Soil Over Tank	-981mv	Conduit At ATG	518mv		iso
	17	Local - Soil Over Tank	-1021mv				
	18	Remote 1	-1010mv-				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						

Facility name: Trail Side Date of test (mm/dd/yyyy): 10/20/2014

(Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)

	Structure to soil potentials (mV)			Continuity testing (mV)			
	Half cell site map code	Half cell placement description	"ON" Voltage	Structure tested	Point-to-point voltage	Fixed cell remote voltage	Isolated/ Continuous/ Inconclusive
Structure: Tank #6 Off Road Diesel	19	Local - Soil Over Tank	-900mv	Conduit At ATG	827mv		iso
	20	Local - Soil Over Tank	-930mv				
	21	Remote 1	-1018mv				
	Structure contact point(s): Tank Bottom						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: All Piping From Tank 1, 2, 3, 4	13	All Piping At Dispensr 1/2	-988mv	Conduit At Dispenser	588mv		iso
	14	All Piping At Dispenser 5/6	-985mv	Pipe To Pipe	0.0		cont.
	15	Remote 1	-858mv				
	Structure contact point(s): Piping At Dispenser						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: All Piping From Tank 5	22	Pipe At Dispenser 7	-882mv	Conduit At Dispenser	408mv		iso
	23	Pipe At Tank	-1001mv				
	24	Remote 1	-979mv				
	Structure contact point(s): Pipe At Dispenser						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: All Piping From Tank 6	25	Pipe A t Dispenser 8	-858mv	Conduit At Dispenser	529mv		iso
	26	Pipe At Tank	-890mv				
	27	Remote 1	-860mv				
	Structure contact point(s): Pipe At Dispenser						
	Overall Structure Results (Structure to soil potentials and continuity): ☒ Pass ☐ Fail ☐ Inconclusive						
Structure: ____							
	Structure contact point(s):						
	Overall Structure Results (Structure to soil potentials and continuity): ☐ Pass ☐ Fail ☐ Inconclusive						

Comments/Remarks:

If separate corrosion protection is required on flex connectors, treat each flex as if it were an individual metal pipe.

Attach additional sheets as needed.

Facility name: Trail Side Date of test (mm/dd/yyyy): 10/20/2014

(Note: The facility name and date of test will automatically populate from page one, if filled out electronically.)

11. Description of UST system

Tank/ Pipe #	Product	Capacity (Gallons)	Tank type[1]	Piping type [2]	Metal Segments at Tank sump [3]	Metal Segments at Dispenser[3]
1	Gas 87	10,000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
2	Diesel	4000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
3	Gas 91	4000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
4	Gas 89	2000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
5	Kero	1000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
6	Off Road Diesel	1000	SW STI-P3	SW Coated Steel	CP w/anodes	CP w/anodes
Ex:	*Premium*	*10,000*	*SW sti-P$_3$®,*	*DW Fiberglass*	*CP w/ anodes*	*In Containment*

1. Indicate if tank is Double Wall (DW) or Single Wall (SW). Also indicated type (e.g., steel, fiberglass, sti-P$_3$®, composite etc.). Also indicate if tank is compartmental if applicable
2. Indicate if piping is Double Wall (DW) or Single Wall (SW). Also indicate type (e.g., coated steel, fiberglass, galvanized, flex, etc.)
3. Indicate how metal segments such as flex connectors or metal pipe segments are protected from corrosion (e.g., isolated, booted, bonded, CP w/anodes, in containment, etc.)

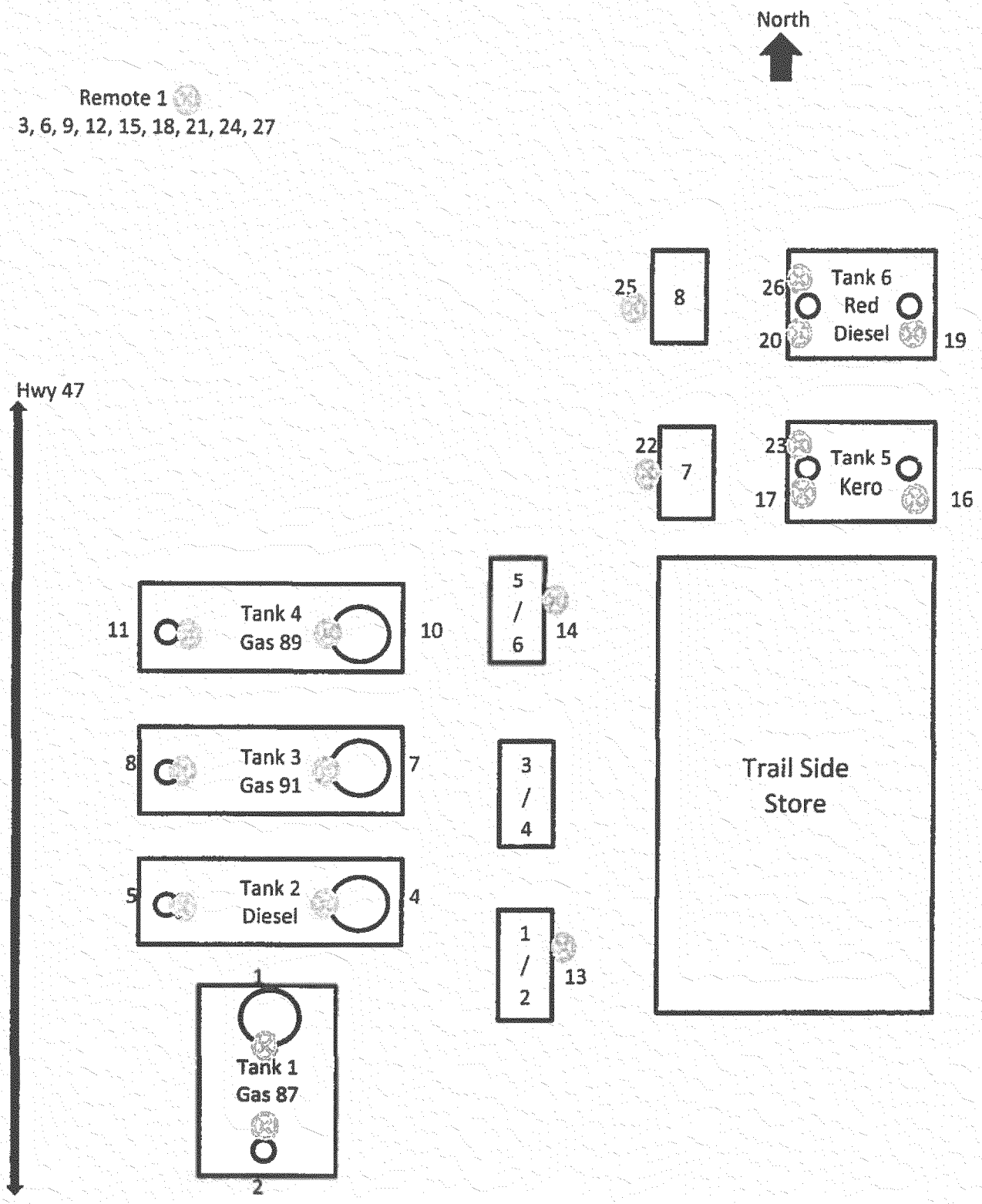
12. UST facility site drawing

Attach detailed drawing or use the space provided to draw a sketch of the UST and CP systems. At a minimum you should indicate the following: All tanks, piping and dispensers; Location of anodes if known; All buildings and streets; Location of CP test stations; Each reference cell placement (local and remote) must be indicated by a code (e.g., 1,2, T-1,) corresponding with the appropriate test in Section 10 of this form. If supplemental anodes are added to the tank system, indicate number, size, location and depth of the new anodes. **An evaluation of the CP system is not complete without an acceptable site drawing.**

[Indicate North Here]

Please see Attached Drawing
And a signed copy of the 1st front page.

Trail Side (Isle)



Service Work Order

"Service After The Sale"

Minnesota Petroleum
682 - 39th Avenue NE
Columbia Heights, MN 55421
763-780-5191
www.mnpetro.com

Minnesota Petroleum - North
6613 West Division Street
Bemidji, MN 56601
888-810-5637
218-333-3538

Date: _____

Company: _____

Contact: _____

Street: _____

City _____ **State:** _____ **Zip:** _____

Work Order # _____

Customer PO # _____

Phone: _____

Warranty (Circle)

YES or NO

Warranty Report # _____

EQUIPMENT (MUST BE FILLED OUT) ***Wayne Tokheim Gilbarco***

Red Jacket Veeder Root

Bennett Schlumb Fill-Rite VeriFone PetroVend Lincoln EMCO

Other: _____

Model Number: _____ **Serial #** _____

Service Requested: _____

Service Performed: _____

Part Number	Description	B/O	Qty	New Serial #	Old Serial #	Price	Total Amount

Departure Time:	
Arrival Time:	
Departure Time:	
Arrival Time:	

Total Hours _____

Job Complete
Yes No

Parts & Materials	
Tax	
Labor	
Mobilization	
Total Due	

Technician _____

Customer Acknowledgement _____

Thank You For Your Business